

Reply to Office Action dated December 30, 2008

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A driving apparatus for a plasma display panel, comprising:
a set-up supplier for supplying a ~~rising ramp waveform~~ an initialing pulse to scan electrodes in an initialization period and for supplying a positive enhancing pulse to the scan electrodes during an enhancing period following said initialization period, wherein the ~~rising ramp waveform~~ initialing pulse increases to a peak voltage and the positive enhancing pulse has a maximum voltage less than the peak voltage; and
a negative voltage supplier for supplying a ~~falling ramp waveform~~ decreasing pulse to the scan electrodes in the initialization period and for supplying a negative enhancing pulse to the scan electrodes during the enhancing period.

2-8. (Canceled)

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9. (Currently Amended) A plasma display device comprising:

a plasma display panel (PDP) having scan electrodes and sustain electrodes to form a plurality of electrode pairs; and

a first driving circuit that initializes discharge cells by applying a first signal having ~~a first gradually rising waveform~~ an initialing pulse to the scan electrodes during a reset period of at least one sub-field, ~~the first gradually rising waveform~~ initialing pulse increasing to a first maximum voltage value, wherein the first signal further has a first decreasing pulse provided after the initialing pulse during the reset period of the at least one sub-field;

wherein the first driving circuit applies a second signal having ~~a second gradually rising waveform~~ an enhancing pulse to the scan electrodes after applying the first signal in the reset period and before an address period of the at least one sub-field, wherein the second signal further has a second decreasing pulse provided after the enhancing pulse in the at least one-sub-field, the second gradually rising waveform enhancing pulse increasing to a second maximum voltage value less than the first maximum voltage value, wherein the first decreasing pulse is provided until a voltage provided to the scan electrodes reaches a first voltage value, and the second decreasing pulse is provided until the voltage provided to the scan electrodes reaches a second voltage value, wherein the first and second voltage values are different.

10. (Previously Presented) The plasma display device as set forth in claim 9, wherein the second maximum voltage value is lower than a sustain voltage applied to the scan electrodes or applied to the sustain electrodes in a sustain period of the at least one sub-field.

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11. (Previously Presented) The plasma display device as set forth in claim 9, wherein a difference between the first maximum voltage value and the second maximum voltage value is substantially the same as a sustain voltage applied to the scan electrodes or the sustain electrodes in a sustain period of the at least one sub-field.

12. (Currently Amended) The plasma display device as set forth in claim 9, wherein a slope of the ~~first gradually rising waveform~~ initialing pulse is substantially the same as a slope of the ~~second gradually rising waveform~~ enhancing pulse.

13. (Currently Amended) The plasma display device as set forth in claim 9, wherein a ground voltage is applied to the sustain electrodes when the ~~second gradually rising waveform~~ enhancing pulse is applied to the scan electrodes.

14-16. (Canceled)

17. (Currently Amended) The plasma display device of claim [[16]]2, wherein the second voltage value is greater than the first voltage value.

18. (Currently Amended) The plasma display device as set forth in claim [[14]]2, wherein a voltage substantially similar to a sustain voltage provided to the scan electrodes or to

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~~the~~ sustain electrodes during a sustain period is provided to the sustain electrodes when the first ~~gradually falling waveform~~ decreasing pulse is applied to the scan electrodes.

19. (Currently Amended) A method of driving a plasma display panel based on a plurality of sub-fields, the plasma display panel having a plurality of discharge cells, and each of the cells having a scan electrode and a sustain electrode, the method comprising:

providing a first signal including ~~a first ramp-up signal~~ an initialing pulse followed by a first decreasing pulse to the scan electrode during an initialization period of at least one sub-field;

providing a second signal including ~~a second ramp-up signal~~ an enhancing pulse followed by a second decreasing pulse to the scan electrode after providing the first signal and during the at least one sub-field, wherein a lowest voltage of the first decreasing pulse is less than a lowest voltage of the second decreasing pulse;

providing a scan signal to the scan electrode during an address period of the at least one sub-field, the scan signal being provided after the second signal in the at least one sub-field;

providing at least one sustain signal to at least one of the scan electrode or the sustain electrode during a sustain period of the at least one sub-field,

wherein the ~~first ramp-up signal~~ initialing pulse of the first signal has a first peak voltage value, and the ~~second ramp-up signal~~ enhancing pulse of the second signal has a second

peak voltage value, and wherein the first peak voltage value is greater than the second peak voltage value.

20-22. (Canceled)

23. (Previously Presented) The method of claim 19, wherein a ground voltage is provided to the sustain electrode when the second signal is provided to the scan electrode.

24. (Previously Presented) The method of claim 19, wherein a sustain voltage is provided to the sustain electrode when the first signal is provided to the scan electrode.

25. (Canceled)